

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s):	Sandbridge Technologies, Inc.	Conf. No.:	3524
Serial No.:	10/617,188	Art Unit:	1755
Filed:	July 10, 2003	Examiner:	
For:	<b>DOPPLER COMPENSATED RECEIVER</b>		

**SUBMISSION OF WRITTEN OPINION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

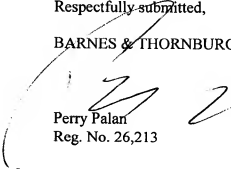
Sir:

Submitted herewith is a written opinion performed by the U.S. Receiving Office in corresponding PCT application No. PCT/US04/021656. You will note that the claims are novel, have inventive step and industrial application. Thus the passage of the U.S. case is respectfully solicited.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Barnes & Thornburg, Deposit Account No. 02-1010 (29083/40711).

Respectfully submitted,

BARNES & THORNBURG LLP

  
Perry Palan  
Reg. No. 26,213

VSR

Date: Oct. 14 2006

## PATENT COOPERATION TREATY

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:  
PERRY PALAN  
BARNES & THORNBURG LLP  
750 17TH STREET, N.W.  
SUITE 900  
WASHINGTON, DC 20006

PCT

WRITTEN OPINION OF THE  
INTERNATIONAL PRELIMINARY  
EXAMINING AUTHORITY

(PCT Rule 66)

Date of mailing  
(day/month/year)

14 AUG 2006

Applicant's or agent's file reference

29083/42455

REPLY DUE

within 2 months/days from  
the above date of mailing

International application No.

PCT/US04/21656

International filing date (day/month/year)

07 July 2004 (07.07.2004)

Priority date (day/month/year)

10 July 2003 (10.07.2003)

International Patent Classification (IPC) or both national classification and IPC

IPC: Please See Continuation Sheet

USPC: 375/346

Applicant

SANDBRIDGE TECHNOLOGIES, INC

1. ☒ The written opinion established by the International Searching Authority:

☒ is ☐ is not

considered to be a written opinion of the International Preliminary Examining Authority.

2. This second (first, etc.) opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion  
☐ Box No. II Priority  
☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  
☐ Box No. IV Lack of unity of invention  
☒ Box No. V Reasoned statement under Rule 66.2 (a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  
☐ Box No. VI Certain documents cited  
☐ Box No. VII Certain defects in the international application  
☐ Box No. VIII Certain observations on the international application

3. The applicant is hereby **invited** to reply to this opinion.

**When?** See the time limit indicated above. ~~The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(e).~~

**How?** By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

**Also** For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis.  
 For an informal communication with the examiner, see Rule 66.6.  
 For an additional opportunity to submit amendments, see Rule 66.4.

If **no reply is filed**, the international preliminary examination report will be established on the basis of this opinion.

4. The final date by which the international preliminary report on patentability (Chapter II of the PCT) must be established according to Rule 69.2 is: 10 November 2005 (10.11.2005)

Name and mailing address of the IPEA/ US

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

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For  
Ted Wang

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WRITTEN OPINION OF THE  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

International application No.  
PCT/US04/21656

Box No. V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims <u>1-25</u>	YES
	Claims <u>NONE</u>	NO
Inventive Step (IS)	Claims <u>1-25</u>	YES
	Claims <u>NONE</u>	NO
Industrial Applicability (IA)	Claims <u>1-25</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and Explanations:

Claims 1-25 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest "prior to demodulation, compensates for a Doppler increased frequency by decreasing a cycle of m samples by one sample period every n samples and compensates for a Doppler decreased frequency by increasing the cycle of m samples by one sample period every n samples" as recited in independent claim 1 and claim 17, respectively.

Claims 1-25 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

----- NEW CITATIONS -----

**WRITTEN OPINION OF THE  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY**

International application No.  
PCT/US04/21656

**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient.)

**TIME LIMIT:**

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Report on Patentability (Chapter II of the Patent Cooperation Treaty).

**Continuation of IPC:**

**H03D 1/04**( 2006.01);**1/06**( 2006.01)

**H03K 5/01**( 2006.01);**6/04**( 2006.01);**H04B 1/10**( 2006.01);**H04L 1/00**( 2006.01);**25/08**( 2006.01)